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FIG. 1

yeast MSTLIPPPSKKQKKEAQLPREVAIIPKDLPNVSIKFQALDTGDNVGGALRV  
c.elegans -----PQISVSEDENELG---GSGILV  
fly -----MQETDTEQEATPHTIQARLVYTGEEAGPPIDL  
mouse -----EEAAAGD-VQRLLVQFQDEGGQLLGSPFDV  
human -----GSPFDV  
frog -----MKEDVGRLLIQFKNENGEGLGTPFDV  
\* : :

yeast EELLNQNGTSDDPVPYTFSCITQGGKASDPVKTIDITDNLVSSLIKPGYN  
c.elegans QILCNQLLGSR---FCLNNEFSVSG-----AEIVDSIRKSLEEIDFE  
fly GLICNALLKNE---EATPYLFFVGE-----DEIKKSLEDTLDLASVD  
mouse XLVCNALL-AQEEPLPLAFVVD-----AEIVSSLGKTLESQSV-  
human QLVCNALL-AQEDPCPLAFFVHD-----AEIVSSLGKTLESQAV-  
frog QLVCNALL-QEEDPVPLAFFVQD-----LEIVTSLDKTLEKQSV-  
: \* \* : \* : : \*

yeast YTPRAVFKVKPVTRSSSAIAGHGSTILCSAFAPHTSSRMVGTGAGDNTARIW  
c.elegans YQPQAVFRVRPVTRCSASIPGHGEPVISAQFSPDGRG-LASGSGDQTMRIW  
fly YQPQAVFKVRPVTRCTSSMPGHAEAVVSLNFSPDGAH-LASGSGDTTVRLW  
mouse YQPQAVFRVRAVTRCTSS-----  
human -QPQXLFVRVAVTRCTS-----  
frog YQPQAVFKVRAVTRCTSSLEGHTEAVISVAFSPTGKY-LASGSGDTTVRFW  
\* : : \* : : \* : : \*

yeast TLKGHYNWVLCVSWSPDGEVIATGSMNTIRLWDPKSGQCLGDALRGHSKW  
c.elegans TCKSHKSWVLCIAWSPDATKIASACKNGEICIWNAKTGEQIGKTLKRHKQW  
fly TCTGHKQWVLCVSWAPDGKRLASGCKAGSIIWDPETGQOKGRPLSGHKKH  
mouse -----  
human -----  
frog TSKGHTHWVLSIAWSPDGKKLASGCKNSQIFIWDPSTGKQIGKPLTGHSKW

yeast LVKPGSKPRLASSSKDGTIKIWDTVSRVCQYTMMSGHTNSVSCVKWGGQGLL  
c.elegans -----TVKMWR-----ADDGVMCRNMTG---  
fly HRDPECR-KLASASGDGDCRIWDVKLGQCLMNIAGHTNAVTAVRWGGAGLI  
mouse -----  
human -----  
frog HLNPESTRY-LASASKDCTIRIWDTVMGQCQKILTSTQSVTAVKWGGDGLL

yeast RVWDINSQGRGINILKSHAHWVNHLSTLDYALRIGAFDHTGKK-----PS  
c.elegans -----HAHWINTLALNTDYALRTSCFE-----PS  
fly KMWR-AADGILCRTFSGHAWVNNIALSTDYVLRGTGPFHPVKDRSKSHLSL  
mouse -----  
human -----  
frog KAWR-AQDGVLCRTLQGHAWVNTMALSTDYVLRKGAFNPADAS--VNPQD

yeast LENYEKICKKNGNSEEMMVTAASDDYTMFLWNPLKSTKPIARMTGHQKLVNH  
c.elegans -----INRMTGHMQLVNO  
fly LKRYQAVCP---DEVESLVSCSDNTLYLWRN-NQNKCVERTMTGHQNVND  
mouse -----  
human -----  
frog EKALKRSNEVRGQGPRLVSGSEDFTLFLWAPAEKKPLQRMTHQALINE

yeast IVSASFDNSIKLWDGRDGKFISTFRGHASVYQVAWSSDCRLLVSCSKDSTT  
c.elegans IASASFDKSVKLWCGRTGKYLASFGRHVGPVYQVAWSADSRLLVSGSADST  
fly IASASFDKSVRLWRASDGQYMATFRGHVQAVYTVAWSADSRLLVSGSKDST  
mouse -----  
human -----  
frog IASASFDKSIKLWDGKTGKFLTSLRGHVSAYQIAWSADSRLLVSGSSDST

yeast KLSVDLPGIKTKLY-VDWSVDGKRVCSGGKDKMVRLWTH  
c.elegans SLYYDLPGHGDEVFTVDWSPEGTKVVSAGGKDKVLKLW--  
fly KLAQELPGHADEVFGVDWAPDGSRVASGGKDKVIKLWAY  
mouse -----  
human -----  
frog KLLIDLPGHADEVYSVDWSPDGQRVASGGKDKCLRIWRK

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FIG. 2(A)

wild-type

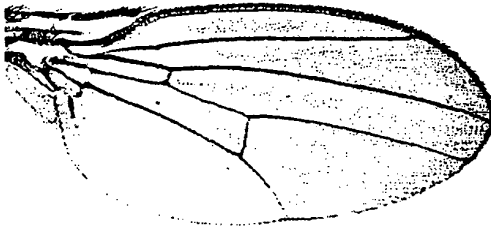


FIG. 2(B)



FIG. 2(C)

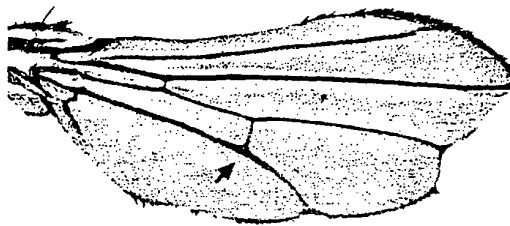
 $nd^1$ 

FIG. 2(D)

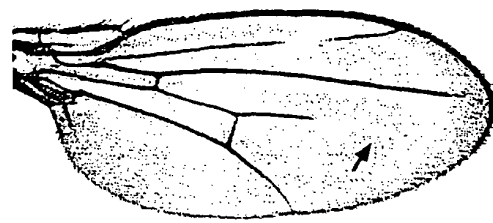
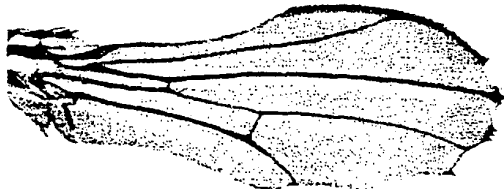
 $nd^1 Nle/+$ 

FIG. 2(E)

 $nd^1 Su(H)/+$ 

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FIG. 2(F)

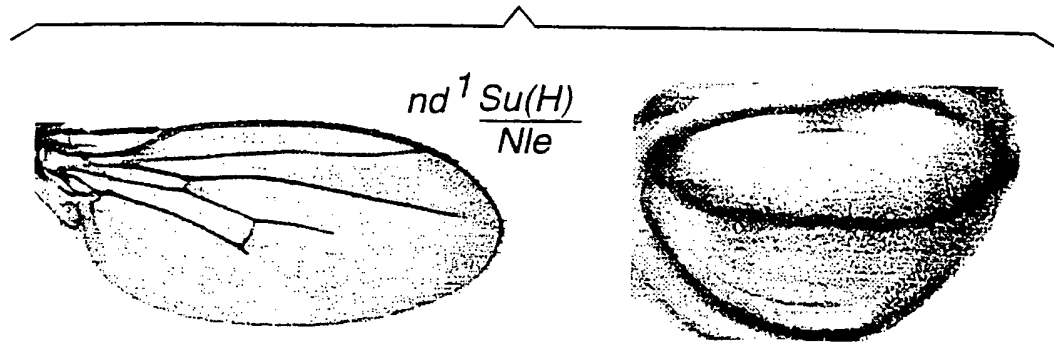
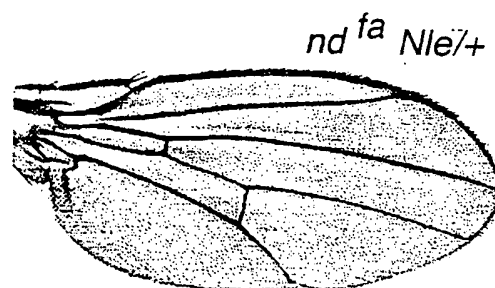


FIG. 2(G)



FIG. 2(H)



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FIG. 3(A)

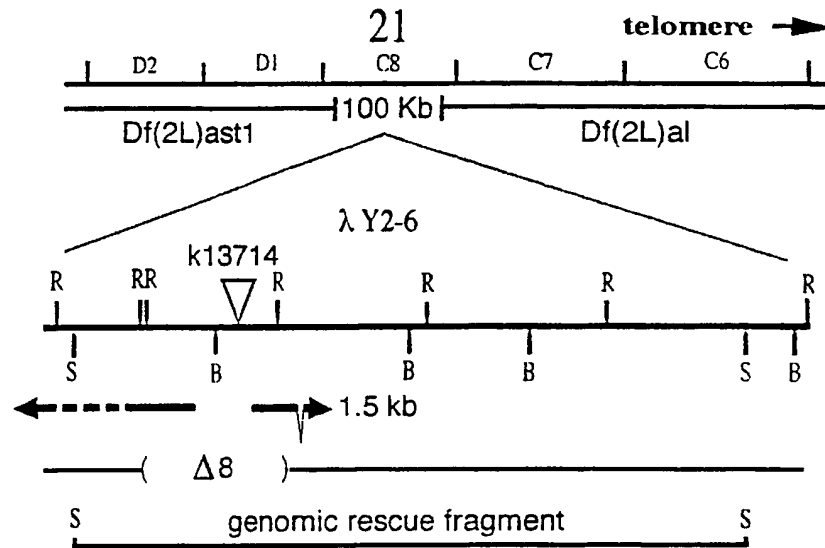


FIG. 3(B)

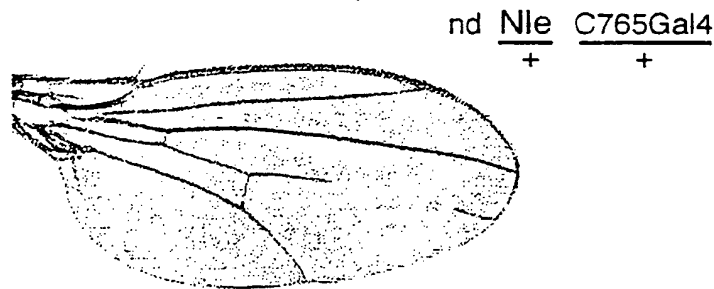
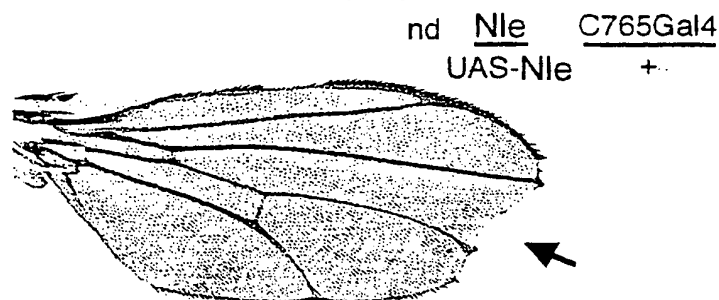
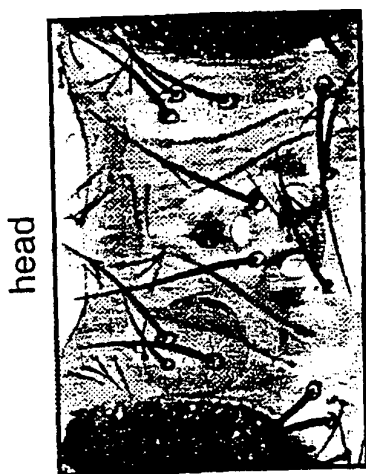


FIG. 3(C)



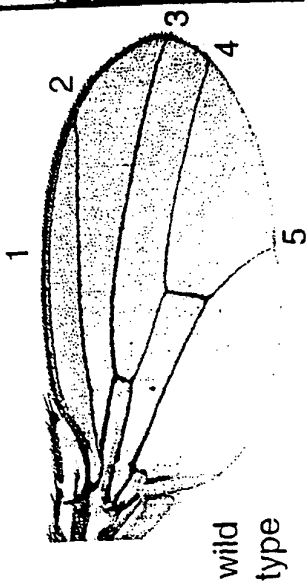
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204110-0860860



thorax

head



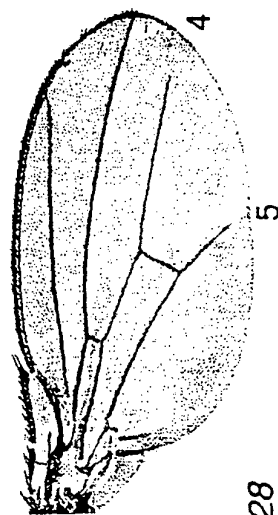
wild  
type

FIG. 4(A)



thorax

head



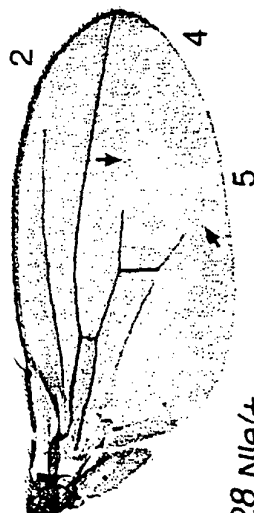
Ax28

FIG. 4(B)



thorax

head



Ax28 Nle/+

FIG. 4(C)

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FIG. 5(A)

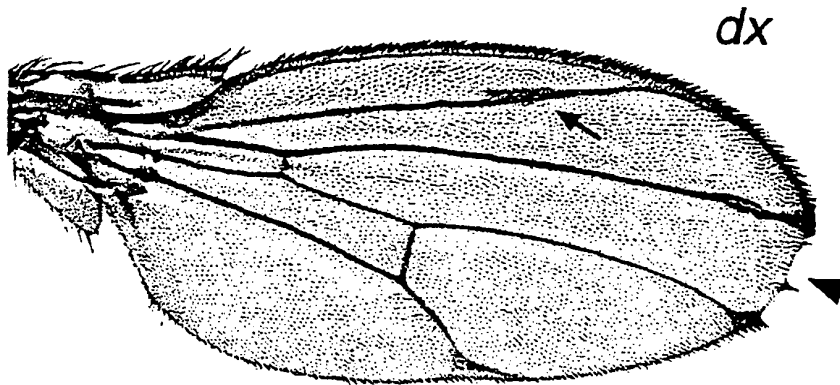
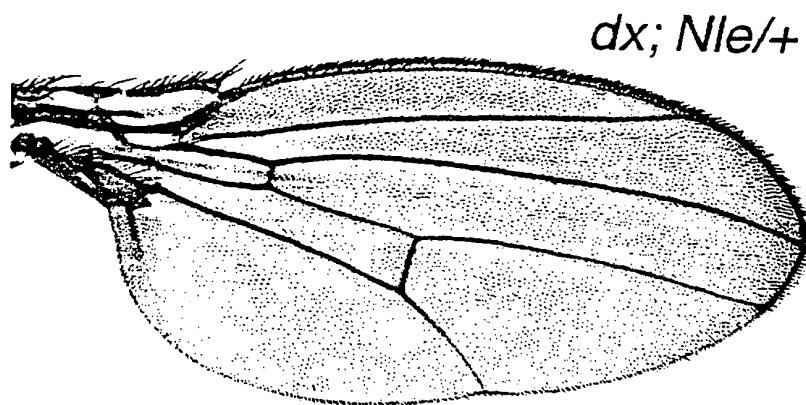


FIG. 5(B)



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FIG. 5(C)

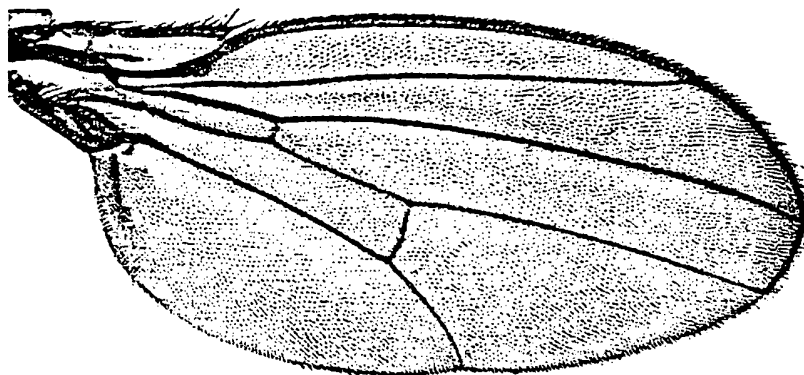
 $HS-dx$ 

FIG. 5(D)

*HS-dx; Nle/+*

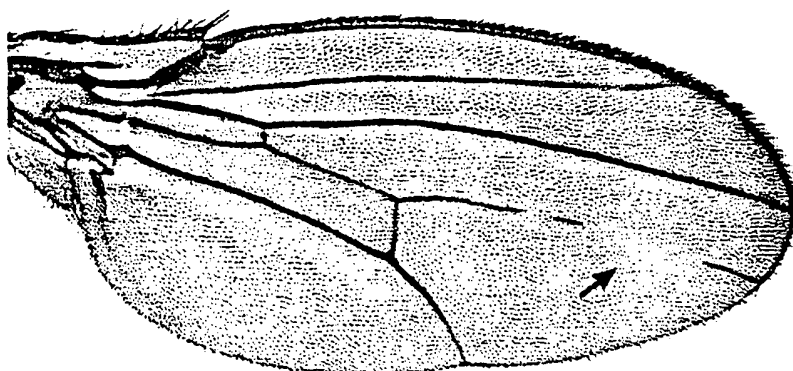


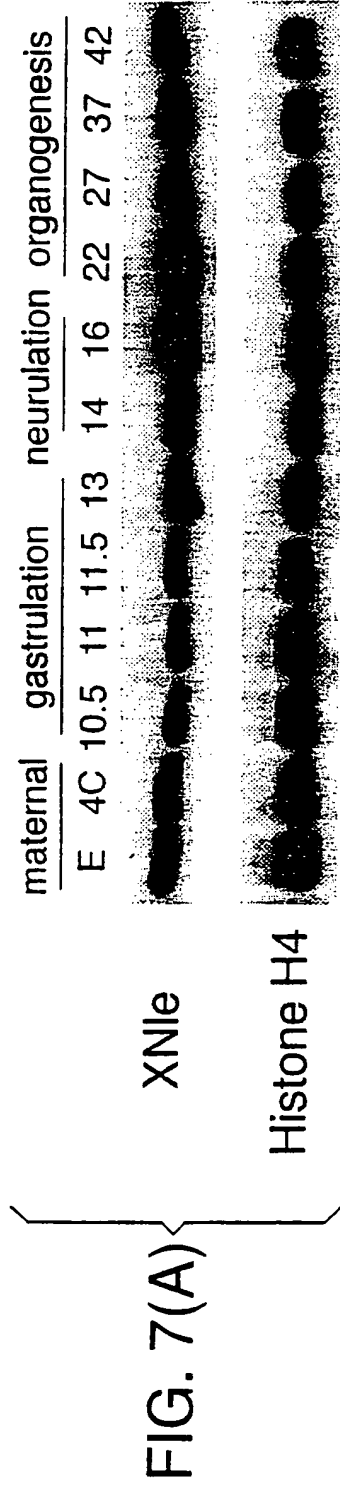
FIG. 6(A)

[illegible]

FIG. 6(B)

Drosophila  
Xenopus  
C. elegans  
S.cerevisiae  
mouse  
human

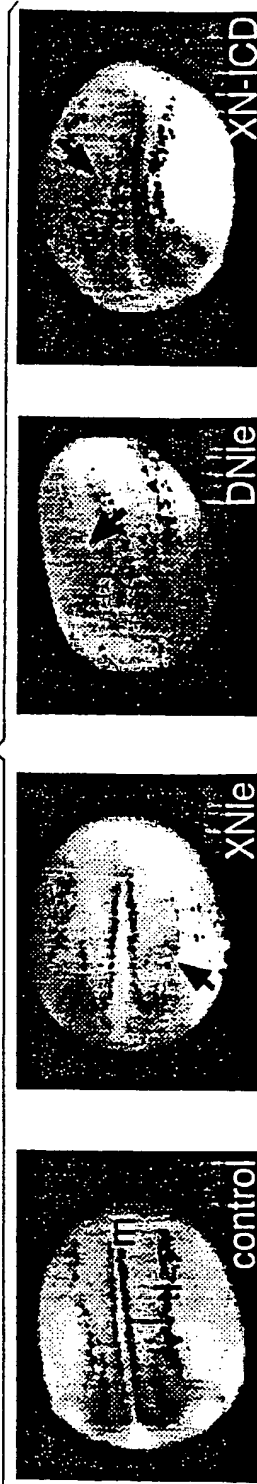
Drosophila  
Xenopus  
C. elegans  
S.cerevisiae  
mouse  
human



**FIG. 7(B)**



**FIG. 7(C)**



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FIG. 8(A)

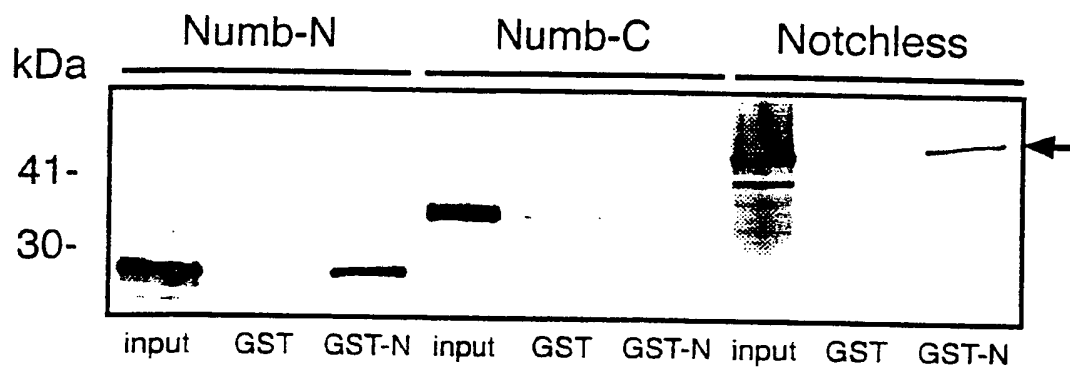


FIG. 8(B)

